ASBESTOS

Christmas Number 1938

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. . . IS EASY TO INSTALL

Here is a system of pipe line insulation protection that withstands the many hazards of underground or weather-exposed service, and yet requires only a minimum of installation time and labor.

No wrapping is required, and no waterproof jacket, no tile, no mopping with tar and no binding with wires. Pipes are insulated and protected *at the Ehret factory.* By following the Durant easy-jointing methods at the job, permanent, service-free installations are assured.

Write today for the Ehret D. I. P. folder containing full details of the Durant System of Pre-sealed Insulated Pipe.

EHRET MAGNESIA MANUFACTURING CO.

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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
CONTINUOUSLY SINCE THAT DATE

A. S. ROSSITER, *EDITOR*

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INCIDENTS OF 1938

Before beginning a new year, let us review, briefly, the events of the old one.

While much of interest has occurred during 1938, there appears to be nothing of an outstanding nature—at least on the surface of things. Perhaps, in later years, we may look back and say that the invention of some asbestos material, the discovery of some new use, the promotion of some particular individual, or perhaps a development entirely outside the Asbestos Industry during 1938 served to change the entire course of asbestos progress. However, nothing of that nature is apparent now.

Several new plants making asbestos materials began production during the past year. Among these are the plant at Dalmuir, Scotland, where Turners Asbestos Cement Company began the manufacture of asbestos-cement roofing materials and pipe; the opening of Keasbey & Mattison Company's new pipe plant at Ambler; the enlarging of Emsco Asbestos Company's textile plant at Downey, Calif., the Johns-Manville asbestos-cement pipe plant at Watson, Calif. The Emsco Asbestos Company also completed its fiberizing mill at Downey, and W. B. Harris opened one at Globe, Ariz.

Several new deposits have been reported, and development work on deposits known but not previously worked, started. Among the former we might mention the deposits found in the islands in the Lake of the Woods, near Kenora, Canada, the J. J. Papineau discovery in the Rice Lake area of Manitoba, the forming of the Australian Blue Asbestos Mines, Ltd., at Perth, Western Australia, the working of deposits in New Zealand, and one or two of the amphibole variety in the United States. None of these at the present time seem to be unduly important. As to their future — who knows!

New asbestos materials — the list is not so long but may be important: — Careyduct, an asbestos insulating duct for air conditioning systems by the Philip Carey Company; Revolite, a new asbestos laundry cover made by the

Atlas Powder Company of Stamford, Conn.; Dux-sulation, a covering for air conditioning ducts, by Grant Wilson, Inc.; Moulded Asbestos for the protection of steel girders and electric cables by Newall's Insulation Co.. Washington Station, Durham, England; Trancell, an asbestos-cement board to house electrical equipment, by Johns-Manville; new or improved types of old, well known asbestos materials, such as gaskets, packings, asbestos-cement sidings, etc.

Promotions of personnel are too numerous to list in this brief review, but the list seems to be unusually long.

The Industry has lost by death several important executives — Alfred Bracewell, one of the Joint Managing Directors of Cresswell's Asbestos Co., Bradford, England, January 19th; J. E. Triganne, Sales Manager of Asbestos Corporation Limited, Thetford Mines, Canada, March 5th; Harold A. Knapp, Vice President and General Sales Manager of The Celotex Corporation, Chicago, Ill., March 24th; L. E. Adams, President, Anchor Packing Co., Philadelphia, April 9th; John R. Livezey, head of the insulating contracting firm by that name, in Philadelphia, November 19th.

The list of patents granted on asbestos products during the year seems to be smaller than usual, totalling between 60 and 70.

Perhaps an unusual feature of 1938, so far as the Asbestos Industry is concerned, was the staging of two nation-wide contests — one by the United States Asbestos Division at Manheim, Pa., "Why Grey-Rock is the fastest growing line"; the other "What the Word Home Means to Me" by Johns-Manville. The sponsors of these contests both report the results as more than satisfactory, they having aroused widespread interest.

Another event that deserves special mention is the establishing by the American Society for Testing Materials of Committee C-16 on Thermal Insulating Materials, the organization meeting of this Committee having been held on March 10th.

So reads the record! On December 31st we will turn to a new, clean white page. What will be written thereon no one can definitely say, but we hope that whatever it is can be summed up in the one word — PROGRESS.

JUS' SUPPOSIN'

A Christmas Editorial

We came across a little verse the other day which seems to appropriately express the Christmas Spirit of Peace and Goodwill. It runs:

Jus' supposin' you were here,
Or I was there with you,
And we could get together
As we often used to do—
And sit awhile and laugh and smile
Without no pomp or posin'
Or frills or fuss, but jus' be us—
On Christmas—Jus' supposin'.

Much of our giving at Christmas time is perfunctory, is on a duty basis, or sometimes because of pride or for "show-off" purposes.

But if, as the verse says—we could "get together without no pomp or posin' " with those who ultimately receive the money we give to charity, learn how they live, how much pleasure they get out of very little; and how very little they have in the first place; our response would be very, very different—both in spirit and amount.

To many this year, as in other years, Christmas will mean, in spite of charities and giving, absolutely nothing but another day to endure hardship and want. To many more it will mean the bright spot in the year only because you, thru organized charity, have helped to make it so.

But, while our giving thru charitable organizations helps to alleviate some of the suffering in the world, brings happiness to those who would otherwise have nothing whatever to make them happy, we ourselves cannot sense the real and dreadful need of the many, nor the brightening of their lives by our gifts.

Personal contact with a few of those who have nothing; learning at first-hand what they need, personally giving to them food, or clothes or money,—only in that way will we find the true spirit of Christmas giving—that giving which not only brings joy to those who receive it but returns to us in the form of real happiness.

Asbestos Fibre

for the manufacture of

Roofing Cements · Fibrous Paints
Filtration Packings
Asbestos Shingles and Lumber
Insulating Cements
Asbestos Paper · Pipe Coverings
Asbestos Millboard
High Temperature Cements

THE QUEBEC ASBESTOS CORPORATION

Office and Mines
EAST BROUGHTON, PROVINCE of QUEBEC
CANADA

WHAT PRICE FREEDOM?

By C. J. Stover

The real Holiday Season runs from Thanksgiving to New Year, and between giving thanks, being joyful and happily welcoming the New Year most of us manage to have a swell time. We give and receive goods and goodwill in amount and kind vastly exceeding that common anywhere else on earth.

True, we have great natural resources of minerals and crops, but much greater in importance are our inner resources or the "unseen" things. The freedom of assembly, of speech, of worship, fought for and defended by this Nation, are examples.

Away back at Runnymede the old King, with tongue in cheek, "gave" Englishmen the basis upon which have been painfully worked out our liberties.

But there is abroad in this land a growing indifference to many of those things without which liberty is lost.

Freedom of assembly and speech are only possible if colleges, societies, churches and the like are privately supported with private funds. Otherwise, political support of such institutions means political control of them with suppression of individual thought and expression.

Can we exist on a free and equal basis without free speech, free press, free assembly and freedom to worship as we please? Our whole National philosophy rests upon full, fair and free expression by minorities at all times and in all places as long as these expressions do not interfere with public safety.

It may be annoying to read and hear some of the silly nostrums proposed by this, that or t'other "ism" or sect, or fanatic, but any curb of this or any other type of freedom is vastly more to be feared than the wildest expressions of the soap-box orator.

Up to now our very best checks to unsound proposals have been the church, the free school and the town meeting. At these places the wheat is taken from the chaff, but the chaff is *heard.*

True, our tax burden has been piled up to the point

ASBESTOS

In a Multitude of Forms . . .

For more than three-quarters of a century, Johns-Manville has been manufacturing a large variety of asbestos products, contributing to greater comfort, protection from fire and the more efficient operation of industrial equipment.

Johns-Manville owns and operates Asbestos Mines in Arizona and Canada, thirteen factories located strategically across the continent, sales offices in all large cities and a large, scientifically equipped research laboratory in which J-M Engineers and Scientists are constantly developing new uses for this remarkable mineral, Asbestos.

Some of the better known J-M Asbestos products include: Packings, Insulations, Roofing and Siding, Transite Water Pipe and Electrical Conduit, Office Partitions, Decorative Wall Boards, Flooring and Friction Materials. In addition, Johns-Manville furnishes raw asbestos in a wide range of grades and fibre lengths.

For complete information on J-M Asbestos Products write to any J-M office or distributor.

Johns-Manville

EXECUTIVE OFFICES: NEW YORK

Branches in All Large Cities

JOHNS-MANVILLE JM PRODUCTS

where many of us, too many, are refusing to support with cash the church, college, ethical society and other similar guarantees of freedom, True, too, if we persist in this refusal, the Government *will*, thru taxation, make us support not *all* of these pillars of freedom, but only those best suited to the interests of the party in power and the policy of all will be dictated, not by the people, but by the political group supplying the money.

If we want ational and personal freedom, we must eternally be reinforcing and renewing the foundation stones upon which it rests. This demands cash support from free men as individuals on a voluntary basis and not thru taxation of all.

Our freedom in this country is priceless and let no man imagine he can retain it without guarding it with his time, his money and, even as our Founders did, with his life if needs be.

STORY!

About a year ago a man stopped in the office to check up on some insurance figures. Just as a matter of curiosity we gave him a few specimens of raw asbestos, and a reprint telling where asbestos is found, etc.

The other day he had occasion to come in again, and told us that he had had great fun with the samples of crude, as no one to whom he showed them knew what they were.

When he finally told them, they wanted to know how it was *"made"*.

Just another instance of how ignorant the public is of asbestos, its qualities and possibilities.

And isn't it just one more argument for collective advertising featuring asbestos, its uses and advantages.

Some day we may all wake up and find the show stolen by other players—competitive materials!

WANTED

High Temperature Cement manufacturer desires dealer representation in Pennsylvania, New Jersey, New York and New England, among asbestos and insulating supply companies, offering high grade product on attractive commission basis. Address Box 12S-J, "ASBESTOS", 16th Floor, Inquirer Bldg., Philadelphia, Pa.

K&M best in asbestos

85% MAGNESIA ... HAS EARNED ITS LEADERSHIP

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Behind K&M "Featherweight" 85% Magnesia is long and broad experience in manufacturing insulation materials for practically every insulating purpose, plus rigid standards that have helped to keep K & M Products leaders in their field. A few territories are open for desirable Distributors. Get in touch with us now.

KEASBEY & MATTISON COMPANY

AMBLER • PENNSYLVANIA

SALVAGE

Asbestos-Cement materials are supposed to last forever, and we have known cases in the past where shingles and other asbestos-cement products have been removed from one building and used on another.

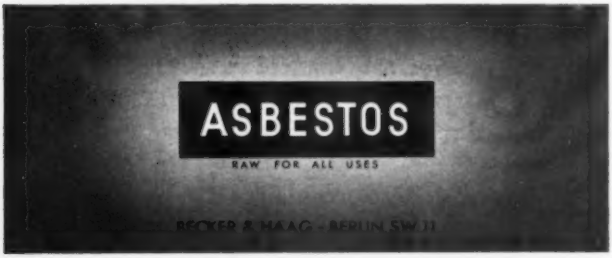
A most outstanding instance of this form of salvage occurred recently and serves as a good example of the lasting quality of asbestos-cement corrugated sheathing.

The Metal Alloy & Specialties Co. of Buffalo, N. Y., about two years ago planned to expand its Elmwood Avenue plant in Buffalo. They happened to know that buildings of the American Tank Car Co. in Cheektowaga (near Buffalo) which were covered with Asbestos-Cement Corrugated Sheathing(of Carey manufacture) were for sale.

Consequently they purchased one of these buildings, removed the corrugated sheathing (170 squares of it) and applied 110 squares to their new plant extension.

The remaining 60 squares were stored against future use. This year the Metal Alloy & Specialties Co. required more factory floor space, so another addition was built and the 60 squares used on that.

Mr. Thomas S. Hemenway, president of the Metal Alloy & Specialties Co., says that they obtained practically 100% salvage value on the Corrugated sheathing and further that the transfer from the old tank car building to their new additions was made very easily without in anyway injuring the material.



ASBESTOS

Arizona Crude
Canadian Crude
Canadian Spinning Fibre
Canadian Shingle Fibre
Cyprus Asbestos
Italian Crude
Russian Crude
Rhodesian Crude
South African Blue Crude
South African Yellow Crude

ASBESTOS LIMITED INC.

8 West 40th Street : New York City

Works: MILLINGTON, N. J.

THE ASBESTOS MAN

At the New York World's Fair

The Johns-Manville Exhibit Building at the New York World's Fair was dedicated on November 16th by Lewis H. Brown, President of the Corporation, in an address before guests of Johns-Manville and members of the J-M organization.

At the same time Mr. Brown unveiled a giant figure of an asbestos-clad man, representing the company's 80 years of service in the control of heat, cold, sound and

Photo by courtesy Johns-Manville

The Asbestos Man holding back Flames of Fire.

motion, and in protecting the nation's homes and industrial structures against the ravages of fire, weather and wear. The figure was designed by Hildreth Meire; Shreve,

Lamb & Harmon designed the building in which the J-M exhibits are being installed.

The Exhibit will present the story of Johns-Manville building materials and the important achievements which the company has made in the conservation of heat in industrial operations, in the harnessing of motor vehicles and great industrial machines, and in the control of sound.

TRADE TREATIES CHANGE ASBESTOS RATES OF DUTY

Announcement of the British-American Trade Treaty, made on November 18th, provides the following changes in duty on imports into the U. S. A. on asbestos textiles and allied materials:

Paragraph 1501 (a) Yarn, slivers, rovings, wick, rope, cord, cloth, tape and tubing, of asbestos and any other spinnable fibre, with or without wire, and all manufactures of any of the foregoing:—a new rate of 20% (the old rate was 40%).

Paragraph 1501 (b) Molded, pressed, or formed articles, in part of asbestos, containing any binding agent, coating, or filler, other than hydraulic cement or synthetic resin:—a new rate of 20% (old rate was 25%).

Readers may also be interested in the following changes in duty on Magnesia:—Paragraph 49—Magnesium: Carbonate, Precipitated, a new rate of 1c per lb. (old rate was 1½c). Oxide or Calcined Magnesia, new rate 5c per lb. (old rate was 7c).

In the Trade Agreement with Canada, duties on exports from the United States are as follows:

Item 312 (a) Asbestos, in any form other than crude, and all manufactures thereof, n. o. p.—new rate of 20% (old rate was 22½%).

Item 296 (c) Magnesium; Carbonate, for use in the compounding, or manufacture of rubber products, new rate of 20%(old rate was 27½%).

Both Trade Agreements will become effective January 1, 1939.

CANADA'S ASBESTOS GOODS

Some data on the asbestos manufacturing industry in 1937[1]

If you wish to have in your reference library on asbestos, information and statistics concerning the Asbestos Industry, both mining and manufacturing, in Canada, for the years 1936 and 1937, we can suggest no better compilation than the 13 page pamphlet "The Asbestos Industry in Canada—1937" published by the Department of Trade and Commerce, Dominion Bureau of Statistics (Mining, Metallurgical & Chemical Branch) at Ottawa, and obtainable at a price of 15 cents.

This pamphlet contains no less than 26 tables and gives in concise form a vast amount of statistical information.

Just a few of the figures, those which seem to be of unusual interest, are given below:

Manufactures of asbestos products in Canada in 1937 were valued at $1,896,677. The following tabulation shows the quantities and value of each class of goods manufactured:

	Unit	Quantity	Cost at works
Asbestos brake linings—Moulded	ft.	2,263,300	$ 391,919
Other	ft.	1,449,744	188,568
Asbestos boiler and pipe covering	ft.	2,028,782	212,341
Asbestos cloth	lb.	10,806	6,795
Asbestos clutch facings	no.	557,916	126,124
Asbestos gaskets	lb.	39,380	23,167
Asbestos packings of all kinds	lb.	433,083	131,213
Asbestos paper	lb.	2,413,150	85,437
All other products[2]	.....	.....	731,113
Total			$1,896,677

The following table shows number of plants, capital

[1] For comparison with 1936 figures see page 20 of Dec. 1937 "ASBESTOS."

[2] Includes products made by 1 firm such as rockwool, asbestos dryer felt, hydraulic hose, asbestos shingles, asbestos yarn, packings of rubber, duck and flax, etc.

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Transvaal
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employed, etc. (for preceding 10 years see page 13, Feb. 1936 "ASBESTOS").

	1936	1937
No. of Plants	13	13
Capital Employed	$1,955,676	$2,003,659
Av. number employees	372	451
Salaries and wages	376,574	464,882
Cost of fuel and elec. at works	79,290	91,252
Cost of materials at works	622,530	812,639
Gross selling value of products at works	1,293,909	1,896,677

JOHN R. LIVEZEY

Pioneer in Insulation dies at age of 71

John R. Livezey, insulation contractor, of Philadelphia, passed away on Saturday, November 19, 1938, at his home in Elkins Park, Pa. Mr. Livezey was 71.

Mr. Livezey started his business career in 1892, installing refrigerating machinery, and while engaged in supervising such work on steamships at the Cramp Ship Yard in Philadelphia, the Nonpareil Cork Manufacturing Company of Bridgeport, Conn. (afterward taken over by the Armstrong Cork Company) brought to his attention what was at that time an entirely new insulating material —Cork.

Mr. Livezey became so much interested in the qualities of Cork as a cold insulation that he discontinued his activities in the refrigerating machinery field and opened a very small office at 120 S. 20th St., Philadelphia, as an insulation contractor.

While Mr. Livezey was a pioneer and an authority on cold storage insulation, he also handled heat insulation materials. His business gradually increased until he was compelled to move to larger quarters on Sansom Street, and a few years later to 1933 Market Street. No doubt some of our readers recall his offices at those addresses. Later he built his own warehouse with offices and railroad siding facilities at 2213 W. Glenwood Avenue, Philadelphia; in 1909 he opened a branch office in

ASBESTOS

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Baltimore, Md., and in Washington, D. C., in 1920; a third branch in Richmond, Va., was opened in 1935.

Mr. Livezey was a widely known Mason, a member of the Manufacturers Club, Bankers Club, Manufacturers Country Club of Philadelphia, Atlantic City Shrine Club, Pennsylvania Rotary Club, American Society of Refrigerating Engineers, Association of Ice Cream Manufacturers of Pennsylvania and New Jersey and the Eastern States Ice Association.

MANHATTAN RUBBER

Observes its 45th Anniversary

The forty-fifth anniversary of the founding and incorporation of The Manhattan Rubber Mfg. Company, now The Manhattan Rubber Mfg. Division of Raybestos-Manhattan, Inc., of Passaic, N. J., was observed on October 28th.

The Company, now one of the world's largest manufacturers of mechanical rubber goods, as well as one of the largest manufacturers of brake linings and clutch facings, was incorporated in 1893; on January 1, 1894 operations were started in one small building, 50 by 150 ft., with a crew of 40 men.

The first President, Frank Cazenove Jones, was forced to retire in 1903 because of ill health. He was succeeded by Col. Arthur F. Townsend, who served as President for 26 years, up to the merger in 1929 which formed Raybestos-Manhattan, Inc., since which date Col. Townsend has been Chairman of the Board of the latter company, and General Manager of The Manhattan Division.

Col. A. F. Townsend

Three other early executives of the company are still active — F. L. Curtis, Assistant General Manager of The Manhattan Division and Treasurer of Raybestos-Manhattan, Inc., who was manager of the company's original factory office; C. T. Young, Factory Manager, who was assis-

JOHNSON'S COMPANY

ESTABLISHED IN 1875

Head Office

Thetford Mines, P. Q., Canada

Mines

Thetford Mines, Quebec

Black Lake, Quebec

Producers of All Grades of

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AGENTS

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tant to Mr. Curtis in the factory office, and Miss Margaret A. Hogan, Secretary to Col. Townsend, who was Col. Townsend's secretary in the original main office in New York City and the Company's first office employee. Henderson M. Green, now Vice President of Raybestos-Manhattan, Inc., became connected with the company later and has taken a prominent part in conducting its affairs.

Twenty-four of Manhattan's present employees started work in the factory or office before the turn of the century and are still active; nearly 200 have been with the company for more than 25 years.

Manhattan now employs approximately 3000 persons in a plant that covers 800,000 square feet of floor space. Auxiliary plants have been established at Whippany, N. J., Neenah, Wis., and North Charleston, S. C.

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CLEAN, well fiberized asbestos particularly well suited for the manufacture of the better types of:

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CLUTCH FACING	MILLBOARD
ROOFING PAINTS	MOULDED PRODUCTS
SHINGLES	ASBESTOS PAPER

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Samples and Prices upon application

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VERMONT ASBESTOS MINES

Division of The RUBEROID Co.

HYDE PARK, VERMONT

Sales Office, 500 rifth Ave., New York City • Mine, Eden, Vt.

MARKET CONDITIONS

GENERAL BUSINESS

We have been noting here and there various items as to carloadings, expansions, increase in building activity, etc., tending to show the trend of general business, and had intended publishing at least some of these, but we find that the National City Bank letter for December so aptly sums up the situation that a few paragraphs from that source will give a better idea of the market trend:

"The month of November has been another period of rising production and employment, with the gains again proving greater than most people expected. Even the optimists tended to underestimate the rate of improvement in the industries this fall. Like everyone else, they were impressed by the indifferent prospects for the heavy equipment industries, the reduced farm income, the disturbed conditions abroad, and the substantial reasons for reluctance or inability to make new business expenditures.

"Hence the idea that the improvement would be at a modest rate. However, the difficulties in the way of getting ahead have carried less weight up to this time than the deferred need for goods, replenishment of depleted stocks, Government spending and other causes of the upturn. The rise in productive activity has been as vigorous in its sixth month as when it started . . . .

"December is usually expected to bring some decline in industrial activity, partly for seasonal reasons, and after a rise of the extent described a leveling off may be the next development. However, predictions that operations will be well maintained, allowing for the seasonal factor, are being generally accepted, due to the orders the industries have on hand".

ASBESTOS - RAW MATERIAL

Importation of long grades of asbestos fibre into the United States has shown a decided falling off for the entire year. This has been primarily due to the Motor Car Industry curtailment of production, and therefore this condition should soon begin to right itself as automotive production is showing a decided improvement.

The European and Far East demand for all types of asbestos has held up very well during the entire year.

Prices generally remain unchanged.

ASBESTOS - MANUFACTURED GOODS

Textiles. The situation in this market appears to show very little change from last month.

Insulation. High Pressure. Volume remains at approximately the same level that has been maintained for some months past. Prices are firm.

Insulation. Low Pressure. Volume on Low Pressure Pipe Covering is very limited, probably and at least partly, due to the end of the year season.

Paper and Millboard. This market is quiet at present, it naturally following that of Low Pressure Covering. The inventory period drawing near means very little buying aside from actual need.

Asbestos Cement Products. This market is showing the effects of the winter season, sales of asbestos-cement siding and roofing having fallen off to some extent. One of our correspondents tells us, however, that sales of corrugated and flat sheets are holding up quite well.

It is believed that there may be an increase in sales volume of Asbestos-Cement Products for industrials thrucut the winter months.

Editor's Note: The above comments have been made by executives in close touch with the various markets and so far as we can check them reflect the true condition of the asbestos industry. However, "ASBESTOS" at no times assumes responsibility for any of the statements made.

CURRENT RANGE OF PRICE

on Canadian Crudes and Fibres

	Per ton (2000 lbs.) f. o. b. Mine
Group No. 1 (Crude No. 1)	$700.00 to $750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry[1])	150.00 to 350.00
Group No. 3 (Spinning or Textile Fibre)	110.00 to 200.00
Group No. 4 (Shingle Fibre)	57.00 to 78.50
Group No. 5 (Paper Fibre)	40.00 to 45.00
Group No. 6 (Waste, Stucco or Plaster)	30.00
Group No. 7 (Refuse or Shorts)	12.00 to 25.00

1 Crude Run-of-Mine refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and No. 2 Crude. Crudes Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

CONTRACTORS AND DISTRIBUTORS PAGE

Building

Public and institutional buildings have again become an important factor in the rising building market, according to F. W. Dodge Corporation. During the month of October, contracts were awarded in the 37 Eastern States for $89,839,000 worth of buildings in these classifications, their largest volume since December 1935. Compared with the total for October 1937, which was $35,085,000, last month's increase was nearly 156 per cent. These classifications include educational buildings, hospitals and institutions, public administrative buildings, social and recreational projects, and religious and memorial buildings.

Construction contracts to be let in the 37 Eastern States during 1939 may reach a total of $3,500,000,000, according to estimates released today by F. W. Dodge Corporation. This figure would compare with an estimated total of $3,200,000,000 for 1938, and an actual total of approximately $2,900,000,000 in 1937. None of these figures include repair and maintenance work. This national construction news organization points out that the total building and engineering volume recorded from January 1 thru November 15, of this year reached a total of $2,635,000,000 compared with $2,599,000,000 in the corresponding period of 1937, and anticipates that considerable letting of public works contracts before the end of this year will materially increase the spread between the final 1938 and 1937 figures. For 1939, indications of increased volume in public and private residential building, commercial and factory building, and public utility construction are stated to be very good.

Air Conditioning Regulations

Revisions to increase the effectiveness of safety requirements for air conditioning installations both in residences and in other buildings have been submitted by the National Fire Protection Association to the American Standards Association for approval.

For air conditioning systems in buildings other than residences the changes call special attention to the fact that combustible coverings or coverings or combustible exterior insulation to ducts are *not* recommended.—*Industrial Standardization.*

INSULATING 70,000 SQ. FT.

at the Cahokia Steam Power Plant at St. Louis

The Union Electric Light & Power Company of St. Louis recently completed the third section of its Cahokia steam power plant, one of the largest electric power plants in the West.

The installed capacity of this big plant, one of the six Union Electric power units which supply St. Louis and other cities with domestic and industrial current, is 310,000 kw.; the generation of electrical energy is at 13,000 volts; steam temperature for throttle 715 degrees. The new section consists of five boilers.

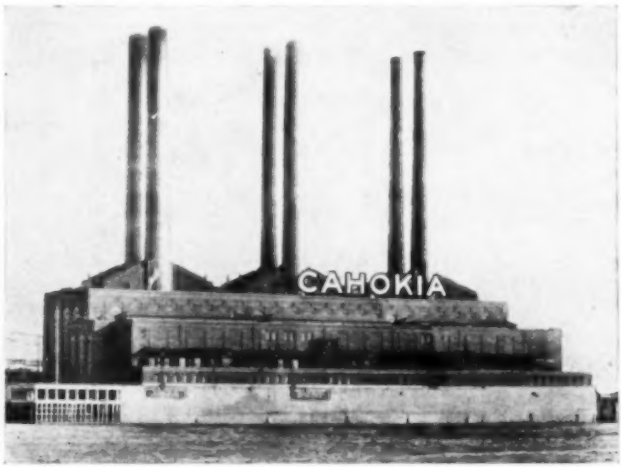


Photo courtesy of Johns-Manville

Cahokia—The Largest Power Plant West of the Mississippi River

As in the case of any highly efficient, modern, steam

generators, economy demanded the use of insulation to the fullest extent and 85% Magnesia was chosen for the job.

Some figures showing actual areas covered give an idea of the size of this installation. For instance there were 1350 square feet of tube headers, 8400 square feet of air preheater surfaces, 15,000 square feet of water walls, and 36,000 square feet of duct work, all of which were insulated with the proper combinations and thicknesses of Magnesia and Superex High Temperature insulations for the temperatures involved. Recirculating tubes having a total length of 5000 feet are also completely insulated with 85% Magnesia.

Various finishes such as hard-finish cement and J-M Insulkote were applied to the different insulation surfaces and all boiler ducts were given a final finish of aluminum bronze paint.

The complete insulation of this job was done by the Contract Department (St. Louis Branch) of Johns-Manville, using Johns-Manville 85% Magnesia, Superex High Temperature and completing materials thruout.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness.)

		November 1938		
	Par	Low	High	Last
Asbestos Corp. (Com.)	np	101	116	105
Celotex (Com.)	np	13¼	16½	14¼
Celotex (Pfd.)	100	62	72	70
Certainteed (Com.)	1	9½	12⅜	10¼
Certainteed (Pfd.)	100	39	45	40½
Flintkote (Com.)	np	24⅛	30	26⅜
Johns-Manville (Com.)	np	96¼	109¼	101
Johns-Manville (Pfd.)	100	126¼	128	127
Raybestos-Manhattan (Com.)	np	20	22½	19⅛
Ruberoid (Com.)	np	28⅜	32⅝	29¼
Thermoid (Com.)	1	3⅝	4⅜	4¼
Thermoid (Pfd.)	10	14	20½	17
U. S. Gypsum (Com.)	20	101	115	105
U. S. Gypsum (Pfd.)	100	171½	174	172½

POSITION WANTED

Insulating Engineer, sales and executive available January 1st. Familiar with corkboard contract work. Address Box 12S-P, "ASBESTOS", 16th Floor, Inquirer Bldg., Philadelphia, Pa.

Africa (Rhodesia)

(Statistics published by Rhodesia Chamber of Mines)

	September 1938 Tons (2000 lbs.)	Value £	s	d
Bulawayo District				
Nil Desperandum and Sphinx (Afr. Asb. Mng. Co. Ltd.)	702.58	10,714	1	3
Pangani (Pangani Tributors)	19.50	119	14	2
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	3,312.42	67,077	9	4
Victoria District				
Allanvale (Mashaba Rho. Asb. Co.)	23.00	153	3	9
D. S. O. (Mashaba Rho. Asb. Co. Ltd.)	10.00	66	14	0
Gath's & King (Rho. & Gen. Asb. Corp. Ltd.)	800.40	13,884	15	11
Murie (Mashaba Rho. Asb. Co. Ltd.)	9.00	144	12	9
Rosey Cross (Mashaba Rho. Asb. Co. Ltd.)	2.00	29	14	8
	4,878.90	£92,190	5	10
Sept. 1937	*4,549.69*	*64,938*	7	8

Africa (Union of South)

(Statistics published by Dept. of Mines & Industries of U. of S. A.)

	August 1937 Tons (2000 lbs.)	August 1938 Tons (2000 lbs.)
Transvaal		
Amosite	667.05	679.00
Blue	58.32	343.00[1]
Chrysotile	1,507.93	145.00
Cape		
Blue	382.04	595.00
	2,615.34	1,762.00

[1] Includes tonnages for Sundry Producers, Feb. to July 1938.

Canada

(Statistics published by Bureau of Mines, Province of Quebec)

Production October 1938 ..... 34,246 tons (2000 lbs.)
Production October 1937 ..... 33,471 tons (2000 lbs.)

Imports into U. S. A.

(Figures published by U. S. Dept. of Commerce)

Unmanufactured Asbestos:

	Sept. 1937 Tons (2240 lbs.)	Sept. 1938 Tons (2240 lbs.)
Africa (Br. S.)	1,290	118
Canada	22,668	13,258
Cyprus	1,489	.....
Italy	32	151
U. S. S. R. (Russia)	1,875	.....
United Kingdom	1	5
	27,355	13,532
Value	*$1,067,949*	*$449,247*

Tabulation of Crudes and Fibres:

Crude (Br. S.)	1,290	118
Crude (Canada)	174	117
Crude (Italy)	3	4
Crude (United Kingdom)	1	5
Milled Fibre (Canada)	7,589	3,043
Milled Fibre (U. S. S. R.)	1,480	.....
Lower Grades (Canada)	14,905	10,098
Lower Grades (Cyprus)	1,489	.....
Lower Grades (Italy)	29	147
Lower Grades (U. S. S. R.)	395	.....
	27,355	13,532

Manufactured Asbestos Goods:

	Sept. 1937 Pounds	Sept. 1938 Pounds
Austria (Packing)	2,192	.....
Belgium (Shingles)	.....	137,761
Canada (Packing)	220	.....
Germany (Packing)	250	852
United Kingdom (Yarn)	2,669	2,711
United Kingdom (Packing)	1,910	807
United Kingdom (Woven Fabric)	648	.....
	7,889	142,131
Value	*$3,415*	*$ 3,871*

There were also imported in September 1938 other asbestos materials to a value of $1,373, these coming from France and Germany.

Exports from U. S. A.

Exports of unmanufactured asbestos during the month of September 1938 amounted to 99 tons valued at $15,510; compared with 499 tons, valued at $32,200 in September 1937.

Exports of Manufactured Asbestos Goods:

	Sept. 1937		Sept. 1938	
	Quantity	Value	Quantity	Value
Paper, Mlbd. & Rlbd. ... lbs.	186,718	$19,018	166,784	$ 9,653
Pipe Covg. & Cement ... lbs.	206,025	11,729	152,988	6,381
Textiles & Yarn ... lbs.	3,558	1,341	13,800	4,732
Packing ... lbs.	107,800	57,873	73,028	46,885
Brake Lining—				
Molded & Semi-molded	.....	66,210	.....	34,540
Not Molded ... lin. ft.	222,114	33,449	52,144	10,369
Clutch Facings—				
Molded & Semi-molded ... units	38,419	15,647	9,671	3,593
Woven ... units	15,825	4,063	4,934	2,067
Magnesia & Mfrs. of ... lbs.	380,306	26,516	98,579	9,126
Asbestos Roofing ... sqs.	1,752	10,805	2,257	12,292
Other Manufactures ... lbs.	316,648	28,048	239,636	20,152

Imports and Exports by United Kingdom:

Imports of Raw Material.

	Sept. 1937		Sept. 1938	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Africa (S. Rhodesia) ...	1,860	£ 49,094	689	£ 18,774
Africa (Union of South) ...	1,903	32,646	678	13,866
Africa (Port. E.) ...	.....	.....	.....	1
Australia ...	.....	.....	.....	4
Canada ...	1,902	22,687	2,913	43,259
Cyprus ...	132	2,297	298	5,561
Finland ...	22	151	15	104
Italy ...	14	550	14	1,197
Netherlands ...	2	319	.....	.....
Sts. Stlmts. & Depend. ...	4	118	.....	.....
U. S. S. R. (Russia) ...	129	2,019	.....	.....
U. S. of America ...	2	14	2	14
	5,970	£109,895	4,609	£ 82,780

Imports and Exports by United Kingdom (Contd.)

Imports of Asbestos Manufactures:

Sept. 1938	35,586 cwts. valued at	£15,197
Sept. 1937	38,538 cwts. valued at	12,720

Exports of Asbestos Manufactures:

	Sept. 1937		Sept. 1938	
	Cwts.	Value	Cwts.	Value
To Eire (Irish Free State)	3,071	£ 2,534	3,014	£ 2,811
British India	6,101	9,138	8,514	11,341
Australia	1,167	7,762	1,065	6,561
Other British C'tries	24,951	36,913	32,387	37,011
Netherlands	2,037	7,583	1,604	6,288
Belgium	1,079	5,803	1,208	4,515
France	137	1,618	80	808
Italy	79	896	172	3,701
Other Foreign C'tries	16,147	45,626	10,683	35,793
	54,769	£117,873	58,727	£108,829

Exports of Raw Asbestos from Canada

(Figures by Dominion Bureau of Statistics)

	Sept. 1937		Sept. 1938	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
United Kingdom	902	$ 52,598	3,045	$174,494
United States	8,938	448,809	3,441	204,398
British India	35	1,750	.....	.....
Australia	329	16,361	576	37,118
New Zealand	.....	.....	20	1,320
Belgium	2,319	127,283	1,364	92,450
Czechoslovakia	.....	.....	340	29,037
France	.....	.....	1,093	90,350
Germany	1,625	126,389	2,389	254,978
Italy	395	30,249	390	24,470
Japan	3,765	137,600	35	5,425
Netherlands	132	6,117	121	5,148
Poland	.....	.....	144	11,215
Portugal	4	180	.....	.....
Sweden	340	20,453	.....	.....
	18,784	$967,789	12,958	$930,403
Sand and Waste				
United Kingdom	438	7,113	630	14,090
United States	14,273	224,979	10,724	184,323
Australia	.....	.....	2	48
Brazil	.....	.....	10	130
Belgium	110	2,420	.....	.....
Czechoslovakia	.....	.....	16	393
France	.....	.....	10	240
Germany	229	4,629	188	4,526

Japan	164	3,316	.....	.....
Netherlands	41	792	25	427
Poland	30	660	.....	.....
	15,285	$ 243,909	11,605	$ 204,177
Grand Total	*34,069*	*$1,211,698*	*24,563*	*$1,134,580*

Exports of Raw Asbestos from South Africa

	August 1936		August 1937	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
To Australia	139	£ 1,619	118	£ 1,699
Belgium	59	821	.....	.....
Canada	21	353	.....	.....
Ceylon	10	181	.....	.....
Chili	30	374	.....	.....
France	81	1,858	175	3,506
Germany	111	3,703	80	1,957
India	43	264	.....	.....
Italy	195	4,211	11	265
Japan	231	3,690	.....	.....
Netherlands	.....	.....	55	1,198
United Kingdom	1,146	17,597	637½	11,641
United States of America	333	8,304	273½	6,310
Yugoslavia	.....	.....	2	12
	2,399	£42,975	1,352	£26,588

AUTOMOBILE PRODUCTION

October shows such a jump in automobile production that it really surprises us even tho we were looking for increased motor activity as show time drew near. Of course that doesn't mean it's anything like last year, but at least it is encouraging.

The total production for October was 215,296 (209,522 in the U. S. A. and 5,774 in Canada). For September it was 89,623 (83,534 in the U. S. A. and 6,089 in Canada); while the total for the first 10 months of 1938 was 1,858,331 (1,728,851 in U. S. A. and 129,480 in Canada.)

This compares with the following 1937 figures: October 337,979; September 175,630; first 10 months of 1937—4,292,459. The industry is expecting 1939 to be an improvement over 1938.

Yellow Shingle Stock. An inquiry reaches us for a source of supply of shingle stock of a definite yellow or buff color. Anyone who knows of such a material is requested to write "ASBESTOS" for further details.

"Service Tests for Packings" by F. C. Thorn, Chief Chemist, Garlock Packing Co., Palmyra, N. Y., is the title of an article in the December 1938 issue of the A.S.T.M. Bulletin. Readers interested may borrow our copy of this article or can very likely obtain a copy of the Bulletin by addressing the A.S.T.M. at 260 S. Broad St., Philadelphia, Pa.

NEWS OF THE INDUSTRY

BIRTHDAYS.

Chas. S. Donnelly, President, Mohawk Asbestos Shingles, Inc., Oneida, N. Y., December 16.

W. E. Harvey, Asst. Treasurer, Thermoid Rubber Co., Trenton, N. J., December 19.

John P. DuBois, Vice President and General Sales Manager, Ehret Magnesia Mfg. Co., Valley Forge, Pa., December 20.

W. H. Huber, M. D., President, Asbestos Fibre Spinning Co., North Wales, Pa., December 22.

George N. Clark and R. L. Clark, of the Clark Asbestos Company, Cleveland, Ohio., December 22.

Wm. Nanfeldt, Chief Engineer and Factory Manager, World Bestos Corp., Paterson, N. J., December 22.

Jacob P. Epstein, President, Empire Asbestos Products, Inc., Glendale, L. I., December 25.

A. P. Smith, Secretary, Russell Manufacturing Co., Middletown, Conn., December 25.

W. H. Truesdell, Chairman, Carolina Asbestos Co., Davidson, N. C., December 26.

M. J. Fitzgerald, Treasurer, Standard Asbestos Mfg. Co., Chicago, Ill., December 27.

A. G. Newton, President, Rockbestos Products Corp., New Haven, Conn., December 28.

Fred A. Mett, President, Powhatan Mining Corporation, Woodlawn, Baltimore, Md., December 29.

C. E. Harwood, Sales Manager, Russell Mfg. Co., Middletown, Conn., January 5.

L. A. King, Manager, Tulsa Branch, Kelley Asbestos Products Co., Tulsa, Okla., January 8.

R. H. Chase, General Manager, Plant Rubber & Asbestos Works, San Francisco, Calif., January 11.

John J. Liner, Vice President, Philadelphia Asbestos Co., Philadelphia, Pa., January 13.

Thomas Murray, Manager Roofing Contract Department, W. S. Nott Co., Minneapolis, Minn., January 14.

E. M. Smith, Chairman, Emsco Asbestos Co., Downey, Cal., January 15.

Congratulations and best wishes are extended to these gentlemen on the occasion of their birthdays.

B. MARCUSE, President of Canadian Asbestos Company, Montreal, Canada, extends to his many friends in the Asbestos Industry good wishes for the New Year and the hope that they will find in 1939 marked improvement over the year just past.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

The CAPE ASBESTOS CO. Limited
Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—MURRAY HILL 2-8287

ASBESTOS CORPORATION LIMITED. The directors have declared a quarterly dividend of 50 cents per share in addition to an extra dividend of $1.50 per share on the common stock, both payable December 31 to holders of record December 15. Extras of 50 cents were paid on September 30, June 30 and on March 31, last, these latter being the initial distributions on this stock.

GEORGE D. CRABBS, President of the Philip Carey Mfg. Company, on November 16, was re-elected as Director of The Federal Reserve Bank of Cleveland, Ohio.

RAYBESTOS-MANHATTAN, INC. reports its net income for the quarter ended September 30 as $245,184, or 39c per share, as compared with a net loss of $302,351.30, during the first six months of the current year.

Directors of the Company at their meeting on November 16 declared a dividend of 25c per share, payable December 15, 1938 to stockholders of record at the close of business November 30, 1938.

HAROLD B. BUSE recently anounced the opening of his law office in the Rice Building, 10 High Street, Boston, Mass. Mr. Buse is acting as Secretary-Treasurer of the Asbestos Contractors New England Association with headquarters at the same address. He was at one time president of the old Nightingale & Childs Company, and more recently president of Insulations Inc.

RUBEROID CO. The Directors on November 15 declared a year-end dividend of 60c per share on the capital stock of the corporation, payable December 20, 1938, to stockholders of record on December 5, 1938. In addition, the Ruberoid directors authorized the redemption on December 20, 1938, of the corporation's entire outstanding issue of 4% Series A Dividend Notes, amounting to $556,928.40 and accrued interest.

The Series A Notes, bearing 4 per cent interest and carrying a due date of December 20, 1940, were distributed to stockholders on December 20 of last year as a year-end dividend in addition to a quarterly cash dividend of fifteen cents per share paid at that time. Under the terms of the distribution, each stockholder received a registered promissory note of the company having an aggregate face value of $1.40 per share for each share of stock held, the company reserving the right to redeem any or all of the notes at any time on or after March 20, 1938, at face amount and accrued interest upon thirty days' notice. The Chase National Bank, as Registrar, has been appointed agent for the redemption of the notes.

Under a change of company policy adopted at the meeting on November 15, the Ruberoid directors will consider dividend action, semi-annually hereafter, at their May and November meetings, instead of quarterly as heretofore. The change of dividend policy was deemed advisable because of the belief that semi-annual periods form a more adequate basis for the consideration of dividend action.

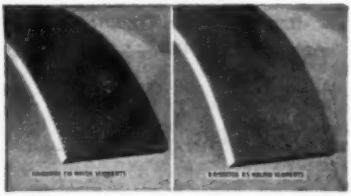
LEWIS H. BROWN, President of Johns-Manville, on Novem-

ber 18, addressed the Fourteenth Annual New England Conference, held in Boston, his subject being "A New Approach to Recovery". Declaring that "for the first time in six years the stage is set so that real cooperation is now possible between government and business leaders", Mr. Brown outlined eleven major economic problems that require solution to consolidate and maintain present recovery gains.

ARTICLES. "Asbestos, a Growing Industry, Closely Controlled, with Fair Profit Margins", is the title of an article by Robert Lane, in the November 9 issue of The Annalist, published by the New York Times Company, New York City.

"Low Temperature Insulation" by Philip Schidrowitz appears in the International Issue (November) of the India Rubber Journal.

RAYBESTOS-MANHATTAN, INC. has perfected two types of rigid friction materials, one woven and one molded, engineered for use singly or in combination to meet the needs of every type of truck brake and service. (See illustration).



As the first gun in its campaign to help dealers sell more brake jobs in 1939 and improve their service to car owners, Raybestos is distributing all over the United States a "Pull a Wheel" poster.

The new campaign will break directly after January 1. The poster will bring home to the motorist the necessity of having a "wheel pulled" to determine accurately the condition of his brake linings.

Its "Senior" Merchandiser Cabinet has been restyled by Raybestos in harmony with the streamline motif of present day automotive units. The illustration shows the massiveness of the cabinet, its rounded edges and flat base. The striking chromium door at the top is designed to keep the Raybestos stock safely locked at all times, with the desired brake-lining set or roll easily available. Displayed in the shop, the cabinet is always seen by the car owner when he drives in, and mechanics can readily select the set needed. Openings in the chromium door show sets in their proper compartment. It's a truly modern cabinet for the modern shop.

RUBEROID CO. announce Type 2 Air-Met, companion product to Type 4 Air-Met, the new form of aluminum foil insulation for

houses, introduced to the trade by Ruberoid Co. some months ago. Type 2 Air-Met was designed for use where the high insulating efficiency of Type 4 is not required. A protective layer of building paper is not required with Type 2 Air-Met. (Neither Type contains asbestos in any form).

LAKE OF THE WOODS ASBESTOS DEPOSIT. Latest reports from this deposit are to the effect that **blue** asbestos as well as a good grade of chrysotile has been found in this area. Samples have been promised us but so far have not arrived. Blue asbestos is most unique in Canada.

"MODERN BRAKES" by J. A. McLaine, Engineering Department of the American Brakeblock Co., is appearing in Brake Service in serial form. The chapter included in the December 1938 issue of Brake Service tells how and why asbestos is used in the various types of brake lining.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Process for the Production of Anhydrous Magnesium Carbonate. No. 2,131,524. Granted on September 27, 1938 to Rudolf Schulze, Bitterfield, Germany, assignor to Magnesium Development Corporation. Application April 24, 1935. Serial No. 18,013. In Germany May 19, 1934.

A process for the production of anhydrous neutral magnesium carbonate from a substance selected from the group consisting of dolomite and limestone which comprises reacting the substance selected with magnesium chloride liquor in a pressure vessel in the presence of carbon dioxide at a temperature of at least about 150° C. and at a pressure sufficient to maintain said liquor at such temperature.

Pipe Assembly. No. 2,132,636. Granted on October 11, 1938 to J. Maahs, White Plains, N. Y., assignor to Johns-Manville Corporation, New York City. Application March 30, 1937. Serial No. 133,759.

A device for joining a branch pipe, including a threaded end portion to a larger pipe, provided with a circular aperture in a side thereof, said device comprising a bushing adapted to be fitted into the aperture and having a slotted end portion of greater wall thickness than the remainder of the bushing; a yieldable gasket surrounding the bushing; a flange on the bushing extending outwardly over the gasket from the end of the bushing remote from the slotted end and means for screwing the end of the branch pipe into the bushing for expanding the slotted end thereof and causing it to force the gasket firmly against the edges of the said aperture, so that the bushing and gasket become clamped within the aperture.

Sound Absorbing Unit. No. 2,132,642. Granted on October 11, 1938 to Raymond V. Parsons, New York, assignor to Johns-

Manville Corporation. Application July 21, 1932. Serial No. 623,799. Description upon request.

Combined Asbestos and Glass Fibre Yarns. No. 2,132,702. Granted on October 11, 1938 to Donald C. Simpson, Newark, O., assignor to Owen-Illinois Glass Co. Application May 22, 1937. Serial No. 144,247.

A yarn comprising asbestos fibres and intermixed long, fine glass fibres, said glass and asbestos fibres being intermatted with one another to provide strength to the yarn.

Fire Protection Unit. No. 2,133,376. Granted on October 18, 1938, to Joseph A. Brown, Colorado, Texas, assignor to Philip Carey Mfg. Co. Application September 21, 1936. Serial No. 101,724.

In combination with a flue pipe in a building a fire protection unit comprising a tubular member of smaller diameter, inserted within a tubular member of larger diameter to provide a space between the walls of the tubular members.

Method of Coagulating Rubber upon Fibres. No. 2,133,693. Granted on October 18, 1938, to Harold W. Greider, Wyoming, O., and Marion F. Smith, Cincinnati, O. Assignors to Philip Carey Mfg. Co. Application July 6, 1934. Serial No. 733,984.

A method of coagulating rubber upon asbestos fibres which comprises preparing an aqueous pulp containing asbestos fibres, rubber latex and a protective effective at the concentrations of the materials comprised in said mix of preventing substantial formation of clots of coagulated rubber in said pulp and then adding sufficient water to said pulp to cause substantially complete and substantially uniform coagulation of the rubber latex about and among the asbestos fibres by said dilution of the pulp with water.

Method of Making Fibrous Material. No. 2,133,694. Granted on October 18, 1938, to Harold W. Greider, Wyoming, O., and Marion F. Smith, Cincinnati, O., assignors to Philip Carey Mfg. Co. Application August 8, 1935. Serial No. 35,302.

A method of precipitating a waterproofing material upon mineral fibres, which comprises preparing an aqueous pulp containing mineral fibres, emulsifying waterproofing material and an emulsifying agent, which inhibits the precipitation of the waterproofing material, the concentrations of the materials in the pulp being such that said waterproofing material does not precipitate with the substantial formation of clots in said pulp and then substantially diluting said emulsifying agent therein by substantially increasing the total amount of said pulp without proportionately increasing the total amount of said emulsifying agent therein and thereby causing precipitation of said waterproofing material about and among said mineral fibres.

THIS and THAT

Air Filter Research. Dr. Edward R. Weidlein, Director, Mellon Institute, Pittsburgh, has announced the establishment of an industrial Fellowship in that institution by the American Air Filter Company, Inc., of Louisville, Ky. This Fellowship will investigate broadly materials of value in the construction of filters for air-conditioning systems. It will be the aim to gain thru this research new knowledge to effect all possible improvements in the devices manufactured by the donor, and in this work the Fellowship will have the direct cooperation of specialists on the staff of the Multiple Industrial Fellowship on air hygiene in operation in the institute.

Dr. Frank F. Rupert, has been appointed to the incumbency of the Fellowship. Since 1935 he has been associated with the Fellowship on air hygiene.

At the Fair. What asbestos materials are being used at the New York World's Fair? Will anyone who has sold asbestos products for or applied them at the Fair, in any way, shape or form, drop us a note telling what they were and how they were used, also the quantity used?

Asbestos Grip. One of the distributors of asbestos products is trying to find some sort of substitute for a flexible rubber handle on an electric unit which will not heat up. The cast metal handle germinates a temperature from 180 to 250 deg. F., the present rubber grip becoming so hot that it is not possible to handle it comfortably. Perhaps the manufacturers of asbestos cloth or clothing could suggest a cover or "grip" which would keep the heat away from the hand. As the quantities range from 500 to 5000 the possible market is large enough to be attractive. Further details will be supplied to anyone interested.

Christmas Trees. A new kind of artificial Christmas Tree is made of iron pipe painted green with asbestos fibre applied to the wet paint. It gives every appearance of an evergreen tree weighted with snow. It is lighted by gas jets (specially constructed) instead of with the usual lights. Built by an amateur for outdoor use—not for sale.

Antigorite. Our September number (page 39) asked for a source of supply of Antigorite. We find that there is a substantial deposit of pure Antigorite located in California, near Stockton, and in this same deposit is another type—a mixture of pure Antigorite and short fibre asbestos. Howard B. Loomis, 450 Russ Bldg., San Francisco, Calif., will be glad to supply further information.

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[1] This Index supplements those in the April, May, June and July 1931 issues and in each December issue thereafter.

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June	1938—10	Asbestos Filter for Humidifier
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Various Asbestos Products

Feb.	1938—12	Careyduct
Feb.	1938—16	Lining Asbestos Paper
Feb.	1938—18	Revolite
Mar.	1938—18	Dux-Sulation
Apr.	1938—12	Akoustikos Felt
June	1938— 2	Moulded Asbestos
June	1938—12	Trancell — A new Asbestos Board
Aug.	1938— 2	Laboratory Table Tops
Aug.	1938—20	Asbestosite (Motor Windings)
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Various Locations of Asbestos

Jan.	1938—38	Manitoba, Canada
July	1938—34	Clarkesville, Ga. (Amphibole)
Sept.	1938—16	Lake of the Woods, Canada
Nov.	1938—23	New Zealand

REDUCING MACHINE DELAYS

With 100% mechanization, as is the case at the two Zeigler (Ill.) mines of the Bell & Zoller Coal & Mining Co., efficiency does not permit overlooking a single possibility of reducing machinery delays. Some years ago asbestos-insulated cable was tried as a replacement for rubber and braid cables in places on mining machinery where heat, and in some cases oil, is present. It soon proved an unmistakable advantage, so now all motor cases on locomotives, mining machines and loading machines in the two mines are rewired exclusively with asbestos-insulated cables. — From Coal Age, Dec. Issue.

Men best show their character in trifles where they are not on their guard. —*Arthur Schopenhauer*

ASBESTOS

TEXTILE PRODUCTS

made of asbestos fibre obtained from Africa, Arizona and Canada—each selected for specific qualities and properly blended to produce:—

Maximum strength and heat resistance.
Minimum iron for electrical purposes.
Non-scoring rod and valve packing.
Frictional properties in brake lining.

GARCO roving, yarn, cord, cloth, tape, tubing, rope, wick, wicking and other asbestos textile products give satisfaction because they are made of the best fibre for the particular purpose on modern equipment by skilful workmen.

Commercial Grade
Underwriters' Grade
Grade AA
Grade AAA
Grade AAAA

Write for Textile Catalog

GENERAL ASBESTOS & RUBBER DIVISION

of

RAYBESTOS-MANHATTAN Inc.
NORTH CHARLESTON, S. C.

DO YOU KNOW--

That exports of raw asbestos from Canada in 1937 were valued at $14,215,309, of which $1,038,955 went to the United Kingdom; $8,261,671 to the United States . . . . .

That one of the oldest houses in New England—built in 1640 at Dorchester, Mass., by Robert Pierce out of hand-hewn timber, and since then the home of ten generations of Pierces—is protected today with Ruberoid-Eternit asbestos-cement sidings . . . . .

That The Philip Carey Mfg. Company's main plant at Lockland, Ohio, covers 75 acres of ground and has over 2,000,000 sq. ft. of floor space . . . . .

That 60,000 feet of Asbestos-Cement Pipe (of Johns-Manville Manufacture) is being used by the New York World's Fair . . . . .

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(Send us interesting facts concerning your company for use on this page).